



Home-built tongs work great for logs up to 20 in. in diameter, says Smith.

## Log Tongs Made From Old Hydraulic Cylinder Shafts

The steel shafts out of old hydraulic cylinders work great for making inexpensive log tongs, says Norman Smith, Walsh, Ill., who uses the tongs together with a 12-ft. long boom that mounts on his tractor's 3-pt. hitch.

"These log tongs work as good as commercial tongs and cost very little to build," says Smith.

He removed the shafts from the cylinders, keeping the steel ring already mounted on the end of each shaft. He used a portable grinder to grind the threaded ends of the shafts down to a point, then heated them and bent them so that they would hold the wood better. Then he drilled a hole through both shafts and ran a single bolt through to serve as a pivot point.

The boom is a length of 4-in. dia., 1/4-in. thick oil well pipe. Smith welded a steel

bracket on top of the pipe that supports a chain that's connected to the ring on each shaft.

"It works great for logs up to 20 in. in diameter," says Smith. "I saw the logs into 20 to 24-in. lengths so I can get them in my wood splitter. The top link on the 3-pt. is controlled by a hydraulic cylinder, providing a double lift for the boom. The boom raises up to 15 ft. high.

"The cylinder shafts were originally mounted on a front-end loader. They were bent when I got them because someone using the loader had overloaded them."

Contact: FARM SHOW Followup, Norman Smith, 7302 Walsh Road, Walsh, Ill. 62297 (ph 618 774-2960).

## Hand-Cranked Flashlight Powers Itself

You don't have to worry about having good batteries with this new hand-cranked flashlight that powers itself.

It takes just 30 seconds of cranking to charge a small steel-coiled generator inside, which is enough to provide light for at least three minutes, according to the C. Crane Co., distributor.

The lantern is powered by two NiCad batteries and features a 0.8-watt Xenon bulb.

Batteries can be charged manually or with an included AC adapter.

The lantern is 10 in. long. It sells for \$74.95, including S&H.

The company also sells a hand-cranked AM/FM radio that runs approximately 30 to 60 minutes on 1 minute of cranking. It sells



**Thirty seconds of cranking provides light for at least three minutes.**

for \$84.95, including S&H.

Contact: FARM SHOW Followup, C. Crane Co., 558 10th St., Fortuna, Calif. 95540 (ph 800 522-8863).

## "Sequential Maturity" Alfalfa Patented

A recently patented breakthrough in alfalfa breeding allows farmers to select alfalfas with varying maturities just like they select corn hybrids.

Sequential Maturity Alfalfa, developed at Dairyland Seed Co., West Bend, Wis., is designed to allow farmers to improve the overall quality of forage by making it possible to harvest all hay at the optimum time.

Currently Dairyland markets two alfalfas produced from the new technology.

Forecast 1000, an earlier maturity alfalfa, can provide farmers an earlier forage harvest, which can be important in springs when forage supplies are short. It also provides the

opportunity for an extra harvest off the same acreage in a long growing season.

Forecast 3000, a late maturity alfalfa, is an ideal fit for three-cut harvest systems which have recently received university extension endorsements as the best suited system for the Midwest.

The alfalfas are priced competitively with other premium alfalfas in the marketplace and are lower priced than many potato leafhopper resistant alfalfas, the company says.

Contact: FARM SHOW Followup, Dairyland Seed, P.O. Box 958, West Bend, Wis. 53095 (ph 800 236-0163 or 414 338-0163; fax 626-2281).



To join the rear ends, Moshondz built a hinged frame out of 3-in. angle iron.

## 4-WD Tractor Built From Two Oliver 88 Rear Ends

"I built it just for fun but I have used it to pull a 14-ft. Deere deep tiller equipped with harrows and it worked just fine," says Robert Moshondz, who built an articulated 4-WD tractor out of two 1950's vintage Oliver 88 rear ends he had in his antique tractor collection.

To marry the two rear ends, the Russell, Manitoba, farmer first built a hinged frame to hold the two units together, using 3/4-in. by 3-in. angle iron. He then ran a driveshaft from the original 4-speed transmission on the front rear end to the back rear end, using a U-joint to provide articulation.

He powered the machine with a 292 cu. in., 6-cyl. gas engine out of a junked Massey 410 combine, which also provided the tractor's hydraulic and steering systems. He

covered the engine with the junked hood off a Deutz tractor.

Both rear ends have separate transmissions and gear shift levers which are connected.

To use, he selects a gear on the front transmission, which then activates the rear transmission.

"I take it to area parades and shows and it always draws a crowd," he says. "It has plenty of power but could use new rubber because I used the original 13 by 26-in. tires on the tractor."

Out-of-pocket expense was about \$1,500 (Canadian).

Contact: FARM SHOW Followup, Robert M. Moshondz, Box 9, Russell, Manitoba, Canada R0J 1W0 (ph 204 773-2569).



Tractor is powered by a 292 cu. in. engine out of a junked Massey 410 combine.



Hamilton used a 4-ft. long, 6-in. dia. grain auger to make a manure fill spout.

## Liquid Manure Fill Spout Made From Old Grain Auger

"I couldn't justify the expense of a commercial aluminum unit so I made my own for less than a quarter of the cost of a new one," says Tom Hamilton who turned an old grain auger into a liquid manure fill spout.

The Ormstown, Quebec, farmer started with a 40-ft. long, 6-in. dia. grain auger, removing the flighting and cutting the gearbox off the top end. He attached a 3-ft. length of 6-in. dia. flexible suction hose to the bottom end and bolted a length of 6 in. dia. PVC pipe with a 90 degree elbow to the top. He added a 2 ft. length of old inner tube to the end of the PVC pipe to extend the spout.

He bolted one of the bands from the quick-

coupler on his lagoon pump to the bottom end to allow him to hook the rig up to his pump.

He used the original wheels and undercarriage of the auger and extended the hitch 3 1/2 ft. so his tractor doesn't bump the suction hose.

"I built it last year and it worked perfectly," says Hamilton. "I can fill my 4,000-gal. tank wagon in 3 minutes."

Out-of-pocket expense was less than \$100.

Contact: FARM SHOW Followup, Tom Hamilton, 2828 N. River Rd., Ormstown, Quebec, Canada H3J 1S0 (ph 514 829-2059).